

# Building Web Applications with Visual Studio 2017

Using .NET Core and Modern  
JavaScript Frameworks



Philip Japikse

Kevin Grossnicklaus

Ben Dewey

Apress®

# Building Web Applications With Visual Studio 2017

**Emilie Sanchez**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle overlapping the right side of the bar.

## **Building Web Applications With Visual Studio 2017:**

Building Web Applications with Visual Studio 2017 Philip Japikse, Kevin Grossnicklaus, Ben Dewey, 2017-07-08 Learn how to build web applications from three Microsoft MVPs After building the data application layer using Entity Framework Core and a RESTful service using ASP NET Core you will then build the client side web application three ways first using ASP NET Core then using Angular 2 and finally using React You will be able to compare and contrast these UI frameworks and select the best one for your needs NET Core is a complete rewrite of the popular NET and its related frameworks While many concepts are similar between NET Core and the NET 4.6 framework there are revolutionary changes as well including updates to Entity Framework Core and ASP NET Core The first section of this book covers the three main parts of building applications with C# Entity Framework ASP NET Core Services and ASP NET Core Web Applications There is also an explosion in popularity of JavaScript frameworks for client side development and the authors cover two of the most popular UI frameworks Start with TypeScript for developing clean JavaScript along with a client side build tool such as Gulp Grunt and WebPack Using the same data access layer and RESTful service from the NET Core application you can rebuild the UI using Angular 2 Then repeat the process using React for a true comparison of building client side applications using ASP NET Core Angular 2 and React What You Will Learn Understand the fundamentals of NET Core and what that means to the traditional NET developer Build a data access layer with Entity Framework Core a RESTful service with ASP NET Core MVC and a website with ASP NET Core MVC and Bootstrap Automate many build tasks with client side build utilities Who This Book Is For Intermediate to advanced NET developers

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[C# 7 and .NET: Designing Modern Cross-platform Applications](#) Mark J. Price, Ovais Mehboob Ahmed Khan, 2018-12-21 Explore C and the NET Core framework to create applications and optimize them with ASP NET Core 2 Key Features Get to grips with multi threaded concurrent and asynchronous programming in C and NET Core Develop modern cross platform applications with NET Core 2 0 and C 7 0 Create efficient web applications with ASP NET Core 2 Book Description C is a widely used programming language thanks to its easy learning curve versatility and support for modern paradigms The language is used to create desktop apps background services web apps and mobile apps NET Core is open source and compatible with Mac OS and Linux There is no limit to what you can achieve with C and NET Core This Learning Path begins with the basics of C and object oriented programming OOP and explores features of C such as tuples pattern matching and out variables You will understand NET Standard 2 0 class libraries and ASP NET Core 2 0 and create professional websites services and applications You will become familiar with mobile app development using Xamarin Forms and learn to develop high performing applications by writing optimized code with various profiling techniques By the end of C 7 and NET Designing Modern Cross platform Applications you will have all the knowledge required to build modern cross platform apps

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**Beginning C# 7 Programming with Visual Studio 2017** Benjamin Perkins, Jacob Vibe Hammer, Jon D. Reid, 2018-03-20 Easily get started programming using the ultra versatile C 7 and Visual Studio 2017 Beginning C 7 Programming with Visual Studio 2017 is the beginner s ultimate guide to the world s most popular programming language Whether you re new to programming entirely or just new to C there has never been a better time to get started The new C 7 and Visual Studio 2017 updates feature a number of new tools and features that streamline the workflow simplify the code and make it easier than ever to build high quality apps This book walks you through everything you need to know starting from the very basics to have you programming in no time You ll learn about variables flow control and object oriented programming then move into Web and Windows programming as well as databases and XML The companion website provides downloadable code examples and practical Try It Out sections provide explicit step by step instructions for writing your own useful customizable code C 7 can be used to build Windows applications program Windows 10 and write Web apps when used alongside ASP NET With programming skills becoming de rigueur in fields far beyond the tech world C 7 is a great place to start building versatile helpful skills This book gets you started quickly and easily with instruction from a master team of C programmers Learn how to program using the world s leading programming language Build smarter faster apps using the latest features in C 7 and Visual Studio 2017 Find and fix bugs sooner saving headaches down the line Integrate with all NET Core Azure applications cloud services Docker containers and more The world of programming can seem intimidating to a beginner and the prospect of learning a whole new language can seem daunting Beginning C 7 Programming with Visual Studio 2017 demystifies the process and shows you how to bring your ideas to life **Learning ASP.NET Core 2.0** Jason De Oliveira, Michel Bruchet, 2017-12-14 Learn how web applications can be built efficiently using

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work for your projects Visual Studio 2017 is packed with improvements that increase productivity and this video will get you started with the new features introduced in Visual Studio 2017 IDE and C# 7.0 Finally you'll look at Source Control repositories Resource description page [Mastering Visual Studio 2017](#) Kunal Chowdhury,2017-07-27 A guide to mastering Visual Studio 2017 About This Book Focus on coding with the new improved and powerful tools of VS 2017 Master improved debugging and unit testing support capabilities Accelerate cloud development with the built in Azure tools Who This Book Is For NET Developers who would like to master the new features of VS 2017 and would like to delve into newer areas such as cloud computing would benefit from this book Basic knowledge of previous versions of Visual Studio is assumed What You Will Learn Learn what's new in the Visual Studio 2017 IDE C# 7.0 and how it will help developers to improve their productivity Learn the workloads and components of the new installation wizard and how to use the online and offline installer Build stunning Windows apps using Windows Presentation Foundation WPF and Universal Windows Platform UWP tools Get familiar with NET Core and learn how to build apps targeting this new framework Explore everything about NuGet packages Debug and test your applications using Visual Studio 2017 Accelerate cloud development with Microsoft Azure Integrate Visual Studio with most popular source control repositories such as TFS and GitHub In Detail Visual Studio 2017 is the all new IDE released by Microsoft for developers targeting Microsoft and other platforms to build stunning Windows and web apps Learning how to effectively use this technology can enhance your productivity while simplifying your most common tasks allowing you more time to focus on your project With this book you will learn not only what VS2017 offers but also what it takes to put it to work for your projects Visual Studio 2017 is packed with improvements that increase productivity and this book will get you started with the new features introduced in Visual Studio 2017 IDE and C# 7.0 Next you will learn to use XAML tools to build classic WPF apps and UWP tools to build apps targeting Windows 10 Later you will learn about NET Core and then explore NuGet the package manager for the Microsoft development platform Then you will familiarize yourself with the debugging and live unit testing techniques that comes with the IDE Finally you'll adapt Microsoft's implementation of cloud computing with Azure and the Visual Studio integration with Source Control repositories Style and approach This comprehensive guide covers the advanced features of Visual Studio 2017 and communicates them through a practical approach to explore the underlying concepts of how when and why to use it [Professional Visual Studio 2017](#) Bruce Johnson,2017-10-18 Skip the basics and delve right into Visual Studio 2017 advanced features and tools Professional Visual Studio 2017 is the industry favorite guide to getting the most out of Microsoft's primary programming technology From touring the new UI to exploiting advanced functionality this book is designed to help professional developers become more productive A unique IDE centric approach provides a clear path through the typical workflow while exploring the nooks and crannies that can make your job easier Visual Studio 2017 includes a host of features aimed at improving developer productivity and UI and this book covers them all with clear explanation new figures and expert insight Whether you're new

to VS or just upgrading this all inclusive guide is an essential resource to keep within arm's reach Visual Studio 2017 fixes the crucial issues that kept professionals from adopting VS 2015 and includes new features and tools that streamline the developer's job This book provides the straightforward answers you need so you can get up to speed quickly and get back to work Master the core functionality of Visual Studio 2017 Dig into the tools that make writing code easier Tailor the environment to your workflow not the other way around Work your way through configuration debugging building deployment customizing and more Microsoft is changing their release cadence it's only been about two years since the last release so developers need to quickly get a handle on new tools and features if they hope to remain productive The 2017 release is designed specifically to help you get more done in less time with greater accuracy and attention to detail If you're ready to get acquainted Professional Visual Studio 2017 is your ideal guide

**.NET Core 2.0 By Example** Rishabh Verma, Neha Shrivastava, 2018-03-20 Build cross platform solutions with NET Core 2.0 through real life scenarios Key Features Bridges the gap between learning and doing and improves your software development skills Covers the best practices of NET development to improve your productivity Example based approach to get you started quickly with software programming Book Description With the rise in the number of tools and technologies available today developers and architects are always exploring ways to create better and smarter solutions Before the differences between target platforms was a major roadblock but that's not the case now NET Core 2.0 By Example will take you on an exciting journey to building better software This book provides fresh and relevant content to NET Core 2.0 in a succinct format that's enjoyable to read It also delivers concepts along with the implications design decisions and potential pitfalls you might face when targeting Linux and Windows systems in a logical and simple way With the NET framework at its center the book comprises of five varied projects a multiplayer Tic tac toe game a real time chat application Let'sChat a chatbot a microservice based buying selling application and a movie booking application You will start each chapter with a high level overview of the content followed by the above example applications described in detail By the end of each chapter you will not only be proficient with the concepts but you'll also have created a tangible component in the application By the end of the book you will have built five solid projects using all the tools and support provided by the NET Core 2.0 framework What you will learn Build cross platform applications with ASP NET Core 2.0 and its tools Integrate host and deploy web apps with the cloud Microsoft Azure Leverage the ncurses native library to extend console capabilities in NET Core on Linux and interop with native code NET Core on Linux and learn how to interop with existing native code Reuse existing NET Framework and Mono assemblies from NET Core 2.0 applications Develop real time web applications using ASP NET Core Learn the differences between SOA and microservices and get started with microservice development using ASP NET Core 2.0 Walk through functional programming with F# and NET Core from scratch Who this book is for If you are a developer or architect and want to learn how to build cross platform solutions using Microsoft NET Core this book is for you It is assumed that you have some knowledge of the

NET Framework OOP and C or a similar programming language **Dr. Dobb's Journal** ,2005 **ASP.NET Core MVC 2.0 Cookbook** Jason De Oliveira,Engin Polat,Stephane Belkheraz,2018-02-27 Learn to implement ASP NET Core features to build effective software that can be scaled and maintained easily Key Features Practical solutions to recurring issues in the web development world Recipes on the latest features of ASP Net Core 2 0 Coverage of Bootstrap Angular and JavaScript lets you supercharge your frontend Book Description The ASP NET Core 2 0 Framework has been designed to meet all the needs of today s web developers It provides better control support for test driven development and cleaner code Moreover it s lightweight and allows you to run apps on Windows OSX and Linux making it the most popular web framework with modern day developers This book takes a unique approach to web development using real world examples to guide you through problems with ASP NET Core 2 0 web applications It covers Visual Studio 2017 and ASP NET Core 2 0 specfic changes and provides general MVC development recipes It explores setting up NET Core Visual Studio 2017 Node js modules and NuGet Next it shows you how to work with Inversion of Control data pattern and caching We explore everyday ASP NET Core MVC 2 0 patterns and go beyond it into troubleshooting Finally we lead you through migrating hosting and deploying your code By the end of the book you ll not only have explored every aspect of ASP NET Core MVC 2 0 you ll also have a reference you can keep coming back to whenever you need to get the job done What you will learn Build ASP Net Core 2 0 applications using HTTP services with WebApi Learn to unit test load test and perform test applications using client side and server side frameworks Debug monitor and troubleshoot ASP Net Core 2 0 applications using popular tools Reuse components with NuGet and create modular components with middleware Create applications using client side technologies such as HTML5 JavaScript jQuery and Angular Build responsive and dynamic UIs for your MVC apps using Bootstrap Leverage tools like Karma Jasmine QUnit xUnit Selenium Microsoft Fakes and Visual Studio 2017 Enterprise Who this book is for This book is written for the ASP NET developer who wants to deliver professional standard software quickly and efficiently It s filled with hands on recipes practical advice and guidance to help developers with every aspect of the ASP NET development cycle Whether you ve just started out or are a seasoned pro the Asp Net Core 2 0 Cookbook is written for you **Building Web Database Applications with Visual Studio 6** Dan Rahmel,2000 With the release of Visual Studio 6 0 Enterprise Edition Microsoft has introduced the ultimate Web development system Since the program contains no written documentation developers can refer to this book for solutions and suggestions on how to make the most of its robust features Ready to use applications are available on the companion Website for downloading saving developers hundreds of hours programming from scratch *Beginning Visual Studio for Mac* Alessandro Del Sole,2017-10-24 Quickly learn how to get the most out of the Visual Studio for Mac integrated development environment IDE Microsoft has invested heavily to deliver their very best development tools and platforms to other operating systems Visual Studio for Mac is a powerful developer tool that reinforces Microsoft s mobile first cloud first and any developer any platform any device strategy With the author s guided

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